



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: GE90-76B BYPASS RATIO: 8.5
 UNIQUE ID NUMBER: 2GE052 PRESSURE RATIO (π_{00}): 35.3
 COMBUSTOR: DAC I
 ENGINE TYPE: TF RATED THRUST (F_{00}) (kN): 360.6

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F ₀₀ (g/kN) or SN	5.6	59.1	62.6	11.2
AS % OF ORIGINAL LIMIT	28.5	50.1	56.6	67.5
AS % OF CAEP/2 LIMIT (NO _x)			70.8	
AS % OF CAEP/4 LIMIT (NO _x)			80.7	
AS % OF CAEP/6 LIMIT (NO _x)			90.0	
AS % OF CAEP/8 LIMIT (NO _x)			103.1	

DATA STATUS

- PRE-REGULATION
 - CERTIFICATION
 x REVISED (SEE REMARKS)

TEST ENGINE STATUS

x NEWLY MANUFACTURED ENGINES
 - DEDICATED ENGINES TO PRODUCTION STANDARD
 - OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE
 (ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)
 x OUT OF PRODUCTION (DATE: -)
 - OUT OF SERVICE (DATE: -)

MEASURED DATA

MODE	POWER SETTING (%F ₀₀)	TIME (minutes)	FUEL FLOW (kg/s)	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NO _x	
TAKE-OFF	100	0.7	2.830	0.07	0.09	44.86	0.0
CLIMB OUT	85	2.2	2.330	0.06	0.13	35.39	0.0
APPROACH	30	4.0	0.780	0.67	5.80	12.68	0.0
IDLE	7	26.0	0.300	3.42	40.35	5.88	9.9
LTO TOTAL FUEL (kg) or EMISSIONS (g)			1082	1753	20020	21342	-
NUMBER OF ENGINES				3	3	3	3
NUMBER OF TESTS				3	3	3	3
AVERAGE D _p /F ₀₀ (g/kN) or AVERAGE SN (MAX)				4.8	54.7	59.1	10.2
SIGMA (D _p /F ₀₀ in g/kN, or SN)							
RANGE (D _p /F ₀₀ in g/kN, or SN)				4.18-5.28	52.1-56.4	58-61	9.4-10.2

ACCESSORY LOADS

POWER EXTRACTION 0 (kW) AT - POWER SETTINGS
 STAGE BLEED 0 (% CORE FLOW) AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.4-98.6
TEMPERATURE (K)	274-299
ABS HUMIDITY (kg/kg)	0.001-0.00726

FUEL

SPEC	Jet A
H/C	1.91-1.92
AROM (%)	15.9-18.6

MANUFACTURER: General Electric Company
 TEST ORGANIZATION: GE90 Eval Engineering
 TEST LOCATION: Site IVD and 6, PTO, Peebles
 TEST DATES: 24/02/1995-28/07/1995

REMARKS

1. Ref GE Report TM95-45.
2. Engine S/N 900-108, 900-111 & 900-114.
3. Post certification/ as delivered to service.
4. Smoke <3 below meas. capability.
5. DAC I combustor

Compliance with Fuel Venting requirements: - ('x' if complies, 'PR' if pre-regulation, '-' if information is not available)